

# ALLNET Switch industrial smart managed Layer2+ 16 Port GbE • PoE Budget 360W • 12x PoE+ • 4x SFP • Fanless • DIN • ALL-SGI8016PM

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## EAN CODE



## Highlights:

- With 12\*10/100/1000M PoE downlink ports, 4\*1000M SFP ports;
- Support PoE power each up to 30W;
- Support L3 management, such as OSPF, RIP, QoS, VLAN, MSTP, Multi-broadcast, ports management and PoE management;
- 6KV surge protection, 8KV contact /15KV air ESD protection;
- Support working temperature -40°C ~+75°C.

ALLNET ALL-SGI8016PM is a professional yet affordable industrial L3 PoE switch with 16 Gigabit ports, supporting up to 12\*10/100/1000M PoE downlink ports and 4\* 1000M SFP ports. The 12\*10/100/1000M ports support PoE+ and comply with IEEE 802.3af/at standard, PoE power per port up to 30W.

It supports L3 management such as OSPF, RIP, QoS, VLAN, MSTP, multi-broadcast, port management and PoE management, and supports 6KV surge protection, 8KV contact/15KV air ESD protection. The wall, desktop and din-rail installation is reliable and durable, and can be used in security network video surveillance, network engineering and other occasions.

## Technical Details:

Parameter	Specifications
Power supply	Powered by power adaptor
Range of voltage	2*DC 48~57V, redundancy power supply
Consumption	Self consumption<20W



Downlink ports	10/100/1000Base-T 30W PoE RJ45(IEEE 802.3af/at)
Uplink ports	Ports 13~16 1000M SFP slots
Cable and distance	Use cat5e/6,100m max
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z
Switch fabric	32Gbps
Though put	23.8Mpps
Buffer	4M
MAC address table	16K
Indicator	Power: 2 *red ;  Uplink 13~16: green LEDs indicate Link/Act  Downlink 1~12: On RJ45 green LEDs indicate Link/Act, yellow LEDs indicate PoE
Protection	Surge: 6KV, standard: IEC61000-4-5 ESD: 8KV: contact/15KV: air, standard:IEC61000-4-2
Working temperature	-40°C~+75°C
Storage temperature	-40°C~+85°C
Humidity	0~95%(No condensation)
Dimension(LxWxH)	165 mmx114 mmx46mm
Material	Metal
Colour	Black
Net-weight	530g
L2 Features Port configuration	Auto-negotiation Flow Control Port Mirror
L2 Features Link Aggregation	Traffic statistics Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP 8 groups 8 ports per group
L2 Features MAC Table	Aging Time Static MAC address Dynamic MAC address management
L2 Features VLAN	4K Active VLANs



	4K VID
	802.1Q Tag VLAN
	Port VLAN
	Protocol VLAN
	MAC VLAN
	Management VLAN
	Voice VLAN
	Q-in-Q
	Private VLAN
	GARP/GVRP
L2 Features ACL	64 ACLs
	L2, L3 e L4
	Time-based ACL
L2 Features Spanning tree	802.1D Spanning Tree Protocol (STP)
	802.1w Rapid Spanning Tree Protocol (RSTP)
	802.1s Multiple Spanning Tree Protocol (MSTP)
	Loop Guard
	Root Guard
	TC-BPDU Guard
	BPDU Guard
	BPDU Filter
L2 Features Multicast	256 groups
	IGMP v1/v2/v3
	Fast Leave
	Multicast VLAN
	Static Multicast
	Multicast Filter
	IGMP Statistics
	MLD Snooping
L2 Features PoE management	Support total power consumption control
	Support single port PoE ON/OFF
	Support port output priority
L2 Features QOS	4 priority queues
	CoS port-based
	CoS 802.1p-based
	CoS DSCP-based



	Scheduling algorithms SP, WRR, SP+WRR
	Storm Control (Broadcast, Multicast, Unknown Unicast)
	Bandwidth control per port
Security Features	Port Security
	MAC address filter
	ARP Association (Manual, ARP scanning, DHCP snooping) up to 200 entries
	ARP Protection
	DoS (Denial of Service)
	Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type
	802.1x Autentication (port-based e MAC-based)
	TACACS/TACACS+ Autentication
	RADIUS Autentication
	DHCP Filter
	Guest VLAN
	SSLv2/SSLv3/TLSv1
	SSHv1/SSHv2
	Restriction of WEB access based on: IP Address, And. MAC and Port
	Port Isolation
	Local User Name Password Authentication (2 levels)
	Loopback detection
Management	SNMP v1/v2c/v3
	RMON 4 grupos
	WEB (HTTP/HTTPS)
	CLI (Telnet, Console, SSHv1/v2)
	Firmware upgrade via console/web/TFTP
	Configuration Backup/Reload
	All possible configurations in the CLI must exist in the WEB interface
	LLDP
Other Features	DHCP Relay
	DHCP Client
	DHCP Snooping
	DHCP Option 82
	SNTP Client

	BOOTP Client
Maintenance	Ping and Tracert
	System log (Local and Remote)
	Memory and CPU Monitoring
L3 Features	Static Routing
	OSPFv2
	RIPv1/v2
	DHCP Server
IPV6	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery
	Internet Control Message Protocol (ICMP) version 6
	TCPv6/UDPv6
	Ping6
	Tracert6
	Telnet(v6)
	Http/Https
	IPv6 TFTP
	Static Routing
	Interface IPV6

## Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	12/0
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	Industrial DIN
Extra Features:	IP40
LAN Geschwindigkeit:	1Gbit/s
Management:	full managed
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP 1Gbit
Weight:	0.42 Kg
Warranty:	24.00 Months

## Accessories

Part No.	Name
200364	ALLNET 19"zbh. Gerätehalter für Hutschiene/DIN-Rail Geräte, T150mm/5HE, Lichtgrau, Frontmontage,
219493	ALLNET DIN-RAIL wall mount enclosure, T220mm, light gray, IP66, SP, 16x M25 ALL-DIN-101-AC
219373	ALLNET DIN-RAIL Wandgehäuse, T223mm, Lichtgrau, IP55, SO-DIN-Serie,
219572	ALLNET DIN-RAIL Wallmount/PoE Smart-Managed Switch T220mm, Light Gray, IP66, SP, ALL-DIN-SGI8012PM
144991	ALLNET ALL-PR2012P-E / PoE Outdoor IP67 Repeater AT - AT
189128	ALLNET PoE 2x Extender Repeater Outdoor Switch IP67
128033	ALLNET Switch Modul ALL4750-INDU SFP(Mini-GBIC), 1000Mbit MM
128034	ALLNET Switch Module ALL4751-INDU SFP(Mini-GBIC), 1000Mbit,
166757	ALLNET Switch Modul ALL4752-INDU SFP(Mini-GBIC), 1000Mbit, LX/LC, 20KM, Industrial, -40/+85 Grad,
193149	ALLNET Switch Modul ALL4761-INDU SFP(Mini-GBIC), 1000Mbit, WDM(Bidi)/LC, Tx1310nm/Rx1490nm, 9u, 20Km, Industrial -40/+85 Grad,
193150	ALLNET Switch Modul ALL4762-INDU SFP(Mini-GBIC), 1000Mbit, WDM(Bidi)/LC, Tx1490nm/Rx1310nm, 9u, 20Km, Industrial -40/+85 Grad,
208404	ALLNET Switch Modul ALL4765-INDU SFP(Mini-GBIC), 1000Mbit, RJ45(TP), Industrial -40/+85 Grad,
99305	ALLNET / ALL95100 TP Cat 6 / PoE Surge arrester
198028	ALLNET TP Cat 6 Überspannungs-/Blitzschutz Surge Protector A
188424	CyberPower USV, OR-Serie, 600VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte,
188433	CyberPower USV, OR-Serie, 650VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, CEE7-Schutzkontakt,
188435	CyberPower USV, OR-Serie, 1000VA/600W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte
188439	CyberPower USV, OR-Serie, 1500VA/900W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte
90560	Synergy 21 LED zub Screw Terminal KEFA (Phoenix® compatible) Plug 5 F
140522	Mean Well power supply - 48V 120W DIN rail, narrow
131244	Mean Well power supply - 48V 240W DIN rail
146994	Mean Well Power Supply - 48V 480W DIN Rail



Part No.: 189896  
Vendor Part No.: ALL-SGI8016PM

Part No.	Name
174789	Synergy 21 Power supply - 48V 480W Mean Well DIN rail parallel function
146996	Mean Well Power Supply - 48V 960W DIN Rail
140955	TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,

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